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NOTICE OF ALLOWANCE AND FEE(S) DUE

166

7590

07/28/2010

YOUNG & THOMPSON 209 Madison Street Suite 500 Alexandria, VA 22314

EXAMINER				
LAM, ANN Y				
ART UNIT	PAPER NUMBER			
1641				

DATE MAILED: 07/28/2010

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/537,292	06/02/2005	Wataru Hattori	8074-1047	8070

TITLE OF INVENTION: FINE PARTICLE HANDLING UNIT, CHIP AND SENSOR MOUNTED WITH SAME, AND METHODS FOR SEPARATING,

CAPTURING AND SENSING PROTEIN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/28/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further adicated unless correcte anintenance fee notificat	correspondence including below or directed oth tions.	g the Patent, advance or erwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspond rate "FEE	lence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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YOUNG & TH	IOMPSON			I her	eby certify that thi	s Fee(s) Transmittal is being	deposited	with the United
209 Madison Str	reet			State addre	s Postal Service we essed to the Mail	ith suf Stop	s) Transmittal is being ficient postage for firs ISSUE FEE address	t class mai above, or	being facsimile
Suite 500	22214			trans	mitted to the USP	ГО (57	1) 273-2885, on the da	ite indicate	ed below.
Alexandria, VA	22314								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO:	RNEY DOCKET NO.	CONFIR	MATION NO.
10/537,292	06/02/2005	•	Wataru Hattori				8074-1047		8070
ITLE OF INVENTION APTURING AND SEN		NDLING UNIT, CHIP A	ND SENSOR MOUN	TED	WITH SAME, A	ND MI	ETHODS FOR SEPAI	RATING,	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	D	OATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	10	0/28/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS						
LAM, A	ANN Y	1641	436-514000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	1. For printing on the patent front page, list 1) the names of up to 3 registered patent attorneys r agents OR, alternatively, 2) the name of a single firm (having as a member a egistered attorneys or agent) and the names of up to registered patent attorneys or agents. If no name is sted, no name will be printed.					
PLEASE NOTE: Unle	ess an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on th	ne pa g an a	tent. If an assignessignment.			ocument ha	as been filed for
lease check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity	Government
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OTE: The Issue Fee and	d Publication Fee (if requ	nired) will not be accepted tes Patent and Trademark	d from anyone other th						
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		FR 1.311. The information			•				
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466	466 7590 07/28/2010				EXAMINER				
YOUNG & THOMPSON		LAM, ANN Y							
209 Madison Str	·eet			ART UNIT	PAPER NUMBER				
Suite 500	cci			711(1 01(11	TTH ENTY ON IDEA				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 676 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 676 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/537,292	HATTORI ET AI	HATTORI ET AL.		
Notice of Allowability	Examiner	Art Unit			
	ANN Y. LAM	1641			
	AINN T. LAW	1041			
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSEI or other appropriate com GHTS. This application	D in this application. If not includ nmunication will be mailed in due	ed course. THIS		
1. This communication is responsive to <u>amendment filed June</u>	e 24, 2010.				
2. The allowed claim(s) is/are <u>1,5-7 and 10-30</u> .					
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have		d) or (f).			
□ Certified copies of the priority documents have □ Certified copies of the priority documents have		ation No			
3. ☐ Certified copies of the priority documents have			tion from the		
International Bureau (PCT Rule 17.2(a)).	cuments have been rece	ived in this hational stage applica	don nom the		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		file a reply complying with the re	quirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Rev	riew (PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Commen	t or in the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🗖 Notice o	f Informal Patent Application			
 Notice of References Cited (PTO-092) Notice of Draftperson's Patent Drawing Review (PTO-948) 		V Summary (PTO-413),			
	Paper N	lo./Mail Date			
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ∐ Examine	er's Amendment/Comment			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		er's Statement of Reasons for Allo	owance		
	9.	,			
/Ann Y. Lam/					
Primary Examiner, Art Unit 1641					

DETAILED ACTION

Allowable Subject Matter

Claims1, 5-7 and 10-30 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claims 1 and 7, the primary reason for allowance is the inclusion of the limitations in the claims regarding a channel having a permeation limiting zone, or flow control portion, having obstacles that are cylinders, pseudo-cylinders, cones, circular cones, elliptical cones, prisms, triangular prisms and quadrangular prisms, and that are arranged so that a direction of force causing flow of particles lies non-normal to and non-parallel with a direction of arrangement of the obstacles at the front-most plane on the branching point side of the permeation limiting zone.

As to claim 11, the primary reason for allowance is the inclusion of the limitations in the claims regarding a channel having a flow control portion which comprises trenches formed on the wall surface of the channel, wherein the trench structures have a long axis and a short axis oriented neither in parallel nor in normal to a force causing the flow of particles.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/537,292 Page 3

Art Unit: 1641

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANN Y. LAM whose telephone number is (571)272-0822. The examiner can normally be reached on Mon.-Thurs. 9-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Shibuya can be reached on 571-272-0806. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ann Y. Lam/ Primary Examiner, Art Unit 1641